

Ongoing and New/Proposed Steller Sea Lion Research

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Organization/ Institution	Study description	Ongoing (O)/ New & Proposed (N)
NMFS/NMML	Satellite tagging	O
NMFS/NMML	Food habits studies foraging behavior	O
NMFS/ABL	Forage fish assessment and biology	O
NMFS/NMML	Aleutian Pass study and GLOBEC GOA	O
NMFS/NMML	Monitoring surveys branding food habits	O
NMFS/ RACE/REFM	Fish stock assessment	O
NMFS/NMML	SSL genetics	O
NMFS/NMML	Seasonality of prey availability in regions of contrasting SSL abundance &	O
NMFS/NMML	Killer whale studies - Southeast AK	O
NMFS/ NMML	Steller sea lions in Oregon	N
NMFS/ NMML	Predation of SSL pups by sleeper sharks around rookeries	N
NMFS/ NMML	IBM of SSL foraging behavior & energetics	N
NMFS/ SWFSC/ABL	Large format aerial photogrammetry of SSL rookeries	N
NMFS/ABL	Shark biology & tagging studies	N
NMFS/ABL	Shark stock assessment (in 02)	N
NMFS/ABL	Contaminants in SSL	N
NMFS/ NMML	Historical subsistence use	N
NMFS/ NMML	Killer whale studies - Kodiak to Seguam	N
NMFS/NMML	Retrospective analysis of killer whale sightings during past surveys	N
NMFS/ RACE/REFM	Walleye pollock fishery interactions	N
NMFS/ RACE/REFM	Efficacy of trawl fishery exclusion zones in maintaining prey availability:	N
NMFS/ RACE/REFM	Atka mackerel tagging in the Aleutians	N
NMFS/ RACE/REFM	Cod pot before/after study	N
NMFS/ RACE/REFM	Archival tag work with Pacific cod	N
NMFS/ RACE/REFM	International Young Gadoid Pelagic Trawl	N
NMFS/ RACE/REFM	Temporal and spatial patterns of pelagic fish in the GOA	N
NMFS/ RACE/REFM	Retrospective analysis of ichthyoplankton data from the GOA & BS	N
NMFS/ RACE/REFM	Climate variability, front dynamics & zooplankton availability: what	N
NMFS/ RACE/REFM	determines forage fish abundance around rookeries	N
NMFS/ RACE/REFM	Winter groundfish surveys	N
NMFS/ RACE/REFM	Economic impacts of SSL protection measures	N
NMFS/ RACE/REFM	Steller sea lion diseases	N

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NMFS-SSLRI	University of St. Andrews: Implications of varying food distribution for fitness of SSL	N
NMFS-SSLRI	Mystic Aquarium: Investigation of vitamin A and E status in SSL: Contribution to nutritional stress in declining populations	N
NMFS-SSLRI	Native Village of Perryville: Collection of traditional knowledge on SSL	N
NMFS-SSLRI	NPUMMRC: Bioenergetics studies of captive SSL	N
NMFS-SSLRI	NPUMMRC: SSL diet quantification studies	N
NMFS-SSLRI	NPUMMRC: Killer whale predation on SSL in western AK	N
NMFS-SSLRI	NPUMMRC: Remote passive acoustic monitoring of killer whales	N
NMFS-SSLRI	University of Alaska, Southeast: Investigations of SSL predation by killer whales in Southeast Alaska	N
NMFS-SSLRI	Alaskan Sea Otter and SSL Commission: Traditional knowledge of SSL and community-based monitoring of local seasonal haulouts	N
NMFS-SSLRI	Aleut Community of St. Paul: Subsistence harvest monitoring of SSL on St. Paul Island, Alaska	N
NMFS-SSLRI	University of Alaska, Anchorage: High-resolution foraging behavior and movement patterns of SSL juveniles in regions of increase and decline	N
NMFS-SSLRI	University of Alaska, Fairbanks: Comparison of prey availability and ecology in SSL foraging regions: a coordinated aerial remote sensing	N
NMFS-SSLRI	University of Alaska, Fairbanks: Fish assemblages associated with sea lion haul-outs	N
NMFS-SSLRI	University of Alaska, Fairbanks: Geographical ecology of SSL and ephemeral, high-quality prey spp in SE AK	N
NMFS-SSLRI	University of Alaska, Fairbanks: Seasonal forage patterns of Steller sea	N
NMFS-SSLRI	University of Washington: Nutritional significance of ephemeral, high-quality foraging opportunities for SSL	N
NMFS-SSLRI	University of Washington: Assessment of fine-scaled interactions between SSL abundance and trends of local fisheries	N
NMFS-SSLRI	Texas A&M: Installation of a remote census & photogrammetry network: validation & assessment of seasonal and individual SSL body condition & population trends	N
NMFS-SSLRI	Texas A&M: Satellite-linked mortality transmitters in SSL: assessing the effects of health status, foraging ability, and environmental variability on juvenile survival and population trends	N
NMFS-SSLRI	Texas A&M: Linking animal-borne data recorders to autonomous remote imaging systems	N
NMFS-SSLRI	Texas A&M: Foraging ecology and hunting behavior of adult and juvenile Steller sea lions	N
NMFS-SSLRI	University of Washington: Acoustic characterization of Steller sea lion forage species	N
NMFS-SSLRI	Aleutians East Borough: Assessing population trends and dietary intake of SSL populations along the western AK Peninsula and eastern Aleutians	N
NMFS-SSLRI	Yale University: Metal toxicity in SSL tissues and cell lines	N
NMFS-SSLRI	University of California: Early and late pregnancy rates of AK SSL and examination of the role of maternal condition	N
NMFS-SSLRI	State of Alaska: Coastal bathymetry within the range of SSL in Alaska	N
NMFS-SSLRI	Colorado State University: Study to evaluate transmitter implant	N
NMFS-SSLRI	State of Alaska: Improving access to ADF&G's lower Cook Inlet Pacific herring stock assessment and commercial fishery databases, including observations of SSL	N

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NMFS-SSLRI	State of Alaska: The subsistence harvest of sea lions and harbor seals by Alaska Natives. Harvest Assessment Program, 2001	N
NMFS-SSLRI	Prince William Sound Science Center: Estimates of changes in the foraging behavior of Steller sea lions in response to precipitous declines of the herring population in Prince William Sound	N
NMFS-SSLRI	State of Alaska: Interaction of SSL and fisheries managed by the State of Alaska	N
NMFS-SSLRI	Bristol Bay Native Association: Identify Steller sea lion rookeries; gathering traditional ecological information on Steller sea lions from	N
ADF&G	Identification of sensitive life history stages of SSL, ability to monitor changes in body condition, PTT deployments	O
ADF&G	Collection of SSL vital statistics in collaboration with NMML	O
ADF&G	Modeling population responses of SSL to incidental take	O
ADF&G	Surveys of blood borne disease	O
ADF&G	Measurement of contaminants of SSL tissues	O
ADF&G	PWS Cook Inlet and Kodiak bottom trawl surveys	O
ADF&G/ PWSSC	PWS hydroacoustic pollock survey collaboration with PWSSC	O
ADF&G	SE Alaska herring assessment	O
ADF&G	Salmon enumeration	O
ADF&G	Evaluate SSL movement patterns to assess habitat use and dispersal	N
ADF&G	Describe ontogeny of diving behavior & nutritional independence in	N
ADF&G	Evaluation of nutritional limitation in juvenile SSL in the western Alaska population	N
ADF&G	Estimation of survival and natality rates of Alaska SSL	N
ADF&G	Investigation of sea lion contaminant loads & disease screening	N
ADF&G	Development of long-term instrument attachments for SSL	N
UAF	Kodiak seasonal diets of SSL	O
UAF	Kodiak seasonal prey availability for SSL	O
UAF	Kodiak seasonal prey quality for SSL	O
UAF	Kodiak diet of SSL competitors	O
UAF	Kodiak killer whale and shark diets	O
UAF	Assess role of potential sea lion competitors	O
UAF	Kodiak seasonal counts of SSL	O
UAF	Gulf Apex Predator-Prey study (not clear how this overlaps with the ongoing studies)	N
NPUMMRC	Bioenergetics of SSL	O
NPUMMRC	Bias in scat analysis	O
NPUMMRC	New technologies implantable VHF	O
NPUMMRC	Effects of Atka mackerel and SSL condition	O
NPUMMRC/	SSL scat collection and diet studies in SE Alaska	O
ADF&G		O
NPUMMRC	Bioenergetic modeling of SSL	O
NPUMMRC	Timing of molt	O
NPUMMRC	Killer whale predation model	O
NPUMMRC	Pribilof Is. & Kodiak Is. monitoring subsistence harvest	O
NPUMMRC	Long-term variability in forage fish abundance	O
NPUMMRC	Trends in diet and population of SSL in Oregon	O
NPUMMRC	Monitoring diet and demographics of SSL in Washington State	O
NPUMMRC	Evaluation of blubber fatty acid diet analyses	N
NPUMMRC	Fatty pollock: nutritional effects of fat & lean fish	N
NPUMMRC	SSL - shark interactions	N

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NPUMMRC	PVA for SSL	N
NPUMMRC	Effects of climate variability and fish size	N
NPUMMRC	A review of the nutritional stress hypothesis in seabirds & SSL	N
NPUMMRC	An investigation into the use of bone marrow	N
NPUMMRC	Body growth and feeding rates	N
NPUMMRC	Leptin, reproductive cycles	N
NPUMMRC	Satiation in young SSL	N
NPUMMRC	Foraging Behavior of Juvenile SSL	N
ASLC	Feeding and metabolic studies on captive animals and diet analysis of wild animals. Inhouse studies and RFP	O
ASLC	Remote video cameras and branding/monitoring in collaboration with	O
ASLC	Capture and short-term holding of SSL. Collection of pups	O
ASLC	Endocrine and immune function, RFP or contract for a portion of this	O
ASLC	Chiswell Is. seasonal prey availability for SSL	O
ASLC	Chiswell Is. Shark predation studies	O
ASLC	Reproductive biology of SSL and effects of disease in collaboration with	O
ASLC	Kuril Islands survey in Russia	O
ASLC	Investigation of an increasing SSL rookery in Russia	O
ASLC	Innovations in remotely monitoring SSL	O
ASLC	Assess sea lion reproductive failure in the eastern GOA	O
ASLC	New technologies for implants and instrumentation	O
ASLC	A final list of new projects conducted by ASLC was not available as of	N
OAR/NOS	CIFAR: Impacts of climate change on the Bering Sea Ecosystem over the past 500 years	N
OAR/NOS	CIFAR: Retrospective studies of climate impacts on Alaska SSL	N
OAR/NOS	CIFAR: The nature of North Pacific regime shifts and their impact on SSL	N
OAR/NOS	CIFAR: Ocean climate variability as a potential influence on SSL	N
OAR/NOS	CIFAR: North Pacific climate variability and SSL ecology: a retrospective and modeling view - Part one	N
OAR/NOS	CIFAR: North Pacific climate variability and SSL ecology: a retrospective and modeling view - Part two	N
OAR/NOS	CIFAR: North Pacific climate variability and SSL ecology: a retrospective and modeling view - Part 3	N
OAR/NOS	CIFAR: Interannual variability of biophysical linkages between the basin and shelf in the Bering Sea - Part 1	N
OAR/NOS	CIFAR: Interannual variability of biophysical linkages between the basin and shelf in the Bering Sea - Part 2	N
OAR/NOS	CIFAR: Predator-prey investigations of killer whales and SSL in Alaska	N
OAR/NOS	CIFAR: The role of physiological constraint in the acquisition of foraging ability: development of diving capacity in juvenile SSL	N
OAR/NOS	CIFAR: Seasonal assessment of prey competition between SSL and walleye pollock	N
OAR/NOS	CIFAR: Investigation of foraging behavior of SSL in the vicinity of Kodaik Island, AK	N
OAR/NOS	CIFAR: Addressing scientific and coastal community informational needs relating to SSL	N
OAR/NOS	CIFAR: Climate-driven bottom-up processes and killer whale abundance as factors in SSL population trends in the Aleutian Islands - Part 1	N
OAR/NOS	CIFAR: Climate-driven bottom-up processes and killer whale abundance as factors in SSL population trends in the Aleutian Islands - Part 2	N

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OAR/PMEL	Investigate relationships between North Pacific Ocean climate and Steller sea lions	N
NPFMC	National Academy of Science BiOp review	N
NPFMC	National Academy of Science abbreviated BiOp review	N
NPFMC	Support additional meetings re. SSL/groundfish fisheries	N